

Title (en)

METHOD FOR CONTROLLING POWER TRANSMITTING DEVICE, METHOD FOR DETECTING FOREIGN OBJECT, AND POWER TRANSMITTING DEVICE IN WIRELESS POWER TRANSMISSION SYSTEM

Title (de)

VERFAHREN ZUR STEUERUNG EINER STROMÜBERTRAGUNGSVORRICHTUNG, VERFAHREN ZUR DETEKTION EINES FREMDKÖRPERS UND STROMÜBERTRAGUNGSVORRICHTUNG IN EINEM SYSTEM ZUR DRAHTLOSEN STROMÜBERTRAGUNG

Title (fr)

PROCÉDÉ DE COMMANDE DE DISPOSITIF DE TRANSMISSION DE PUISSANCE, PROCÉDÉ DE DÉTECTION D'OBJET ÉTRANGER ET DISPOSITIF DE TRANSMISSION DE PUISSANCE DANS UN SYSTÈME DE TRANSMISSION DE PUISSANCE SANS FIL

Publication

EP 3335926 A1 20180620 (EN)

Application

EP 17206341 A 20171211

Priority

JP 2016242035 A 20161214

Abstract (en)

A method for controlling a power transmitting device is a method for detecting a metal foreign object by controlling the power transmitting device including a power transmitting coil [110] that outputs power to a power receiving coil [210] and a thermal sensor [130] that measures a surface temperature of the metal foreign object on the power transmitting coil. The method includes causing the power transmitting coil to output the power before the coils are electromagnetically coupled with each other and a mobile object [200] including the power receiving coil overlaps the power transmitting coil, causing the thermal sensor to measure the surface temperature of the metal foreign object, and transmitting, if the measured surface temperature of the metal foreign object is equal to or higher than a threshold, a signal indicating presence of the metal foreign object to another receiving apparatus, other than the power transmitting device, having a function of receiving the signal.

IPC 8 full level

B60L 11/18 (2006.01); **G01V 3/10** (2006.01); **H02J 7/02** (2016.01)

CPC (source: CN EP US)

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Citation (applicant)

- JP 2013192411 A 20130926 - DENSO CORP
- JP 2001275280 A 20011005 - SHARP KK
- JP 2013048511 A 20130307 - PANASONIC CORP
- JP 2013059239 A 20130328 - UNIV SAITAMA, et al
- US 2014239735 A1 20140828 - ABE SHIGERU [JP], et al

Citation (search report)

- [XAYI] WO 2016002619 A1 20160107 - IHI CORP [JP] & US 2017043672 A1 20170216 - ARAKI JUN [JP], et al
- [Y] EP 2755301 A1 20140716 - TECHNOVA INC [JP], et al
- [A] GB 2525239 A 20151021 - BOMBARDIER TRANSP GMBH [DE]

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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DOCDB simple family (application)

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